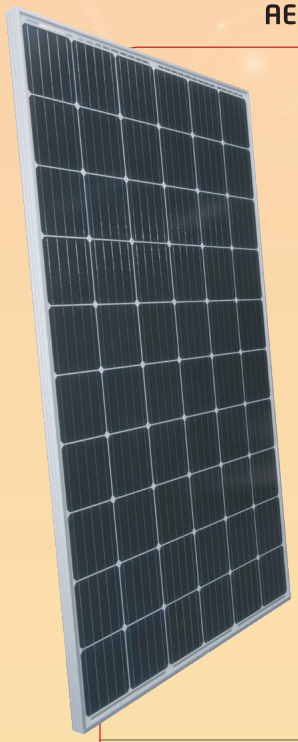
ANCHOR by Panasonic

305 Watt

PERC - MONOCRYSTALLINE SOLAR MODULE

IS 14286 / IEC 61215
IS / IEC 61730 (Part 1)
IS / IEC 61730 (Part 2)
R- 41108570

AE6H310WB5B • AE6H305WB5B • AE6H300WB5B



Features

High module conversion efficiency
18.9%
Module efficiency up to 18.9 % achieved through advanced cell technology and manufacturing capabilities

High PID resistant
PID Resistant
Advanced cell technology and qualified materials lead to high resistance to PID

Positive tolerance
0/+5%
Positive tolerance of up to 5% delivers higher output reliablity

Anchor current sorting process
2%
System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by amperage

Extended wind and snow load tests
3800Pa
5400Pa
Module certified to withstand extreme wind (3800 Pascal) and snow loads (5400 Pascal) *

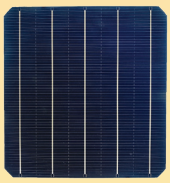
Withstanding harsh environment
Harsh environment
Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

IEC
DIN EN 61215 (VDE 0126 - 31)
DIN EN 61730 - 1 (VDE 0126 Teil)
DIN EN 61730 - 2 (VDE 0126 30 -1 - 30 - 2)

Certifications and standards:
IEC 61215, IEC 61730
IEC 62804 | IEC 62716 | IEC 61701

Trust Anchor to Deliver Reliable Performance Over Time

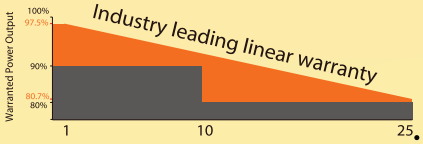
- World-class manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001: 2008, ISO 14001: 2004 and ISO17025: 2005
- Regular independently checked production process from international accredited institute/company
- Tested for harsh environments (salt mist, ammonia corrosion and sand blowing testing: IEC 61701, IEC 62716, DIN EN 60068-2-68)***
- Long-term reliability tests
- 2 x 100% EL inspection ensuring defect-free modules



Advanced PERC Technology

The cell uses back surface passivation and local BSF technology, which can improve cell efficiency by a large margin.

Industry-leading Warranty based on nominal power



- 97.5% in the first year, thereafter, for years two (2) through twenty-five (25), 0.7% maximum decrease from MODULE's nominal power output per year, ending with the 80.7% in the 25th year after the defined WARRANTY STARTING DATE.****
- 12-year product warranty
- 25-year linear performance warranty

IP68 Rated Junction Box

The Anchor IP68 rated junction box ensures an outstanding waterproof level, supports installations in all orientations and reduces stress on the cables. High reliable performance, low resistance connectors ensure maximum output for the highest energy production.

* Please refer to Anchor Standard Module Installation Manual for details. **WEEE only for EU market.
*** Please refer to Anchor Product Near-coast Installation Manual for details. **** Please refer to Anchor Product Warranty for details.

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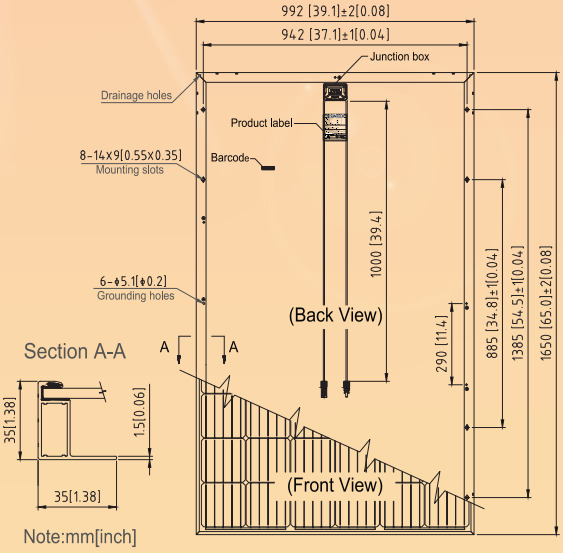


Electrical Characteristics

STC	AE6H310 WB5B	AE6H305 WB5B	AE6H300 WB5B
Maximum Power at STC (Pmax)	310 W	305 W	300 W
Optimum Operating Voltage (Vmp)	33.1 V	32.8 V	32.5 V
Optimum Operating Current (Imp)	9.37 A	9.30 A	9.23 A
Open Circuit Voltage (Voc)	40.2 V ±5%	39.8 V ±5%	39.6 V ±5%
Short Circuit Current (Isc)	9.87 A ±5%	9.80 A ±5%	9.72 A ±5%
Module Efficiency	18.9%	18.6%	18.3%
Operating Module Temperature	-40 °C to +85 °C		
Maximum System Voltage	1000 V DC (IEC)		
Maximum Series Fuse Rating	20 A		
Power Tolerance	0/+5 W		

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

NOCT	AE6H310 WB5B	AE6H305 WB5B	AE6H300 WB5B
Maximum Power at NOCT (Pmax)	232.6 W	228.3 W	225.0 W
Optimum Operating Voltage (Vmp)	30.8 V	30.5 V	30.3 V
Optimum Operating Current (Imp)	7.55 A	7.49 A	7.43 A
Open Circuit Voltage (Voc)	37.6 V	37.1 V	37.0 V
Short Circuit Current (Isc)	7.97 A	7.92 A	7.85 A

NMOT: Irradiance 800 W/m2, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

Temperature Characteristics

Nominal Operating Cell Temperature (**NOCT**)	42±2°C
Temperature Coefficient of Pmax	-0.39 %/°C
Temperature Coefficient of Voc	-0.34 %/°C
Temperature Coefficient of Isc	0.060 %/°C

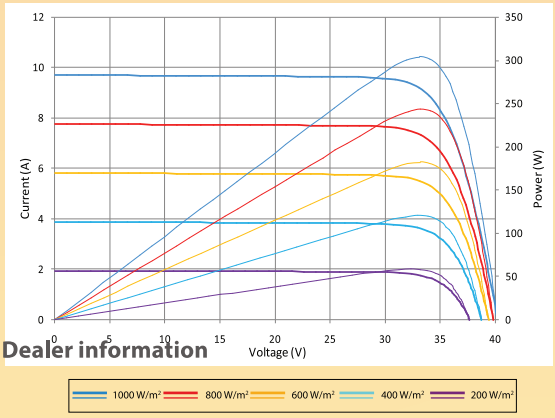
Mechanical Characteristics

Solar Cell	Monocrystalline silicon 6 inches
No. of Cells	60 (6 × 10)
Dimensions	1650 × 992 × 35mm (64.96 × 39.1 × 1.4 inches)
Weight	18.3 kgs (40.3 lbs.)
Front Glass	3.2 mm (0.13 inches) tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm² (0.006 inches²), symmetrical lengths (-) 1000mm (39.4 inches) and (+) 1000 mm (39.4 inches)
Connectors	MC4 compatible

Packing Configuration

Container	20' GP	40' HC
Pieces per pallet	30	30
Pallets per container	6	28
Pieces per container	180	840

Current-Voltage & Power-Voltage Curve (305S)



Dealer information

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